Disaster Mitigation WG of APAN

- Objectives
  - Establish Collaboration Network of Disaster Mitigation for Sustainable Development of Asia
- Strategy
  - Deeper understanding of sciences of natural disasters
  - Leverage resources and efforts from all parties and APAN partners
  - Capacity building
  - Sharing the knowledge, resource, services and data, etc.
- Approaches
  - Case Studies: knowledge & experiences sharing; identify critical requirements; Enhance mitigation knowledge and practices; Advanced Analysis on historical events (with Machine Learning) etc. —> Knowledge Base would be the outcome
  - Understanding the sciences of disaster events and taking advantages of numerical simulation
  - Providing Simulation, Data and Analysis Services: e.g., Scientific Gateway
  - Capacity Building
    - Regional e-Infrastructure with platform and services, according to requirements
    - Master Class
    - Dissemination
  - Outreach
    - Agriculture Applications (with APAN WG), Water Resource, Environmental changes, Cultural Heritage Conservation/Curation, etc.
- Partners: coordinated by APAN
  - Disaster Mitigation Competence Center (EGI), all APAN partners
  - Open Collaboration: all related project/organization/initiatives are welcomed

Tentative Masterclass Arrangement

- Schedule: at least One-Day event at APAN44 in Beijing 2017
- Science, Analysis and Simulation: 90 min
  - TW: Numerical simulation on typhoon, storm surge, tsunami, scouring, and environmental events (two talks)
  - Recommendation and Volunteer are appreciated
- Case Studies: 150 min
  - Haiyan(PH, Jolin), Typhoon Morakot(TW, CY), Scouring(TW, TR)
  - Strategic Strengthening of Flood Management Capacity of Pakistan (UNESCO)
  - More case studies from other countries are welcomed: TH, ID, IN, etc.
- Simulation Portal Services: 30 min
- Sessions to be determined: suggestion and advice are welcomed
- Discussion: 90 min
  - Capacity Building
    - Requirement and available resources (Networking, Satellite images and RS data analysis)
      - in terms of disaster mitigation workflow: sensor network —> warning —> response —> post process
      - analysis and enhancement based on previous events
    - What services and solutions are needed ?
  - Collaboration Network
  - Future Plan
  - And more